

MICHIGAN PUBLIC SCHOOL EMPLOYEES RETIREMENT SYSTEM

Pension Actuarial Valuation Results as of September 30, 2006



#### **Actuarial Valuation Process**

#### Member Data



#### Plan Provisions



#### Financial Data



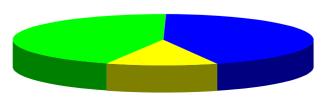
**Actuarial Assumptions** 



Actuarial Cost Method

**Actuarial** 

**Valuation** 

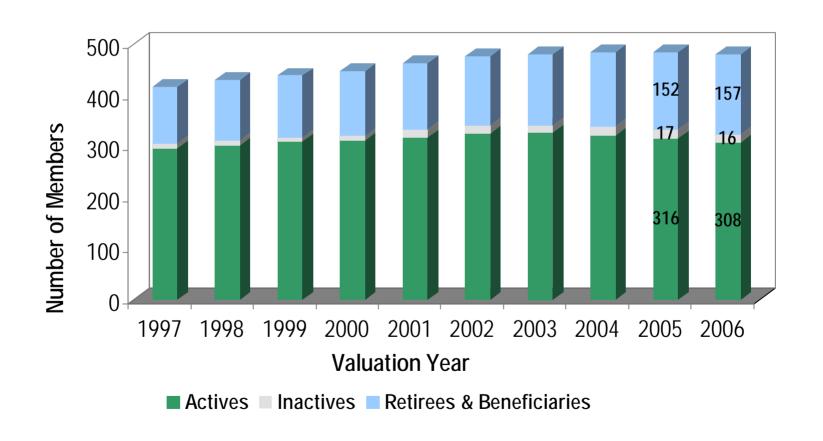






### Membership Data

#### (Counts in Thousands)

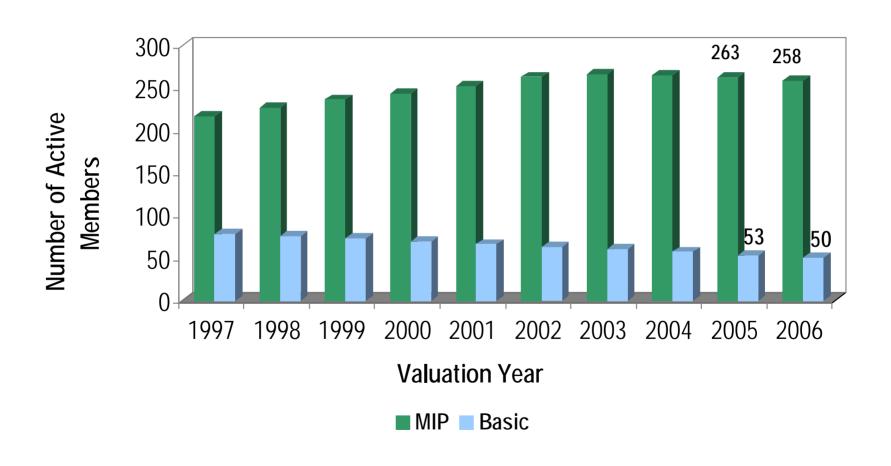






## Active Members by Plan

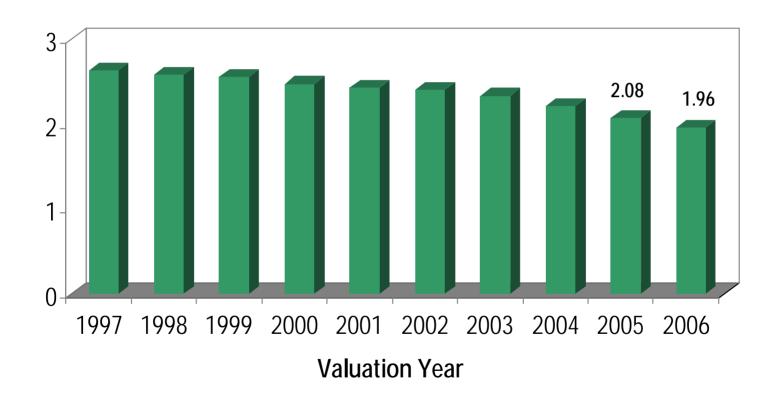
(Counts in Thousands)







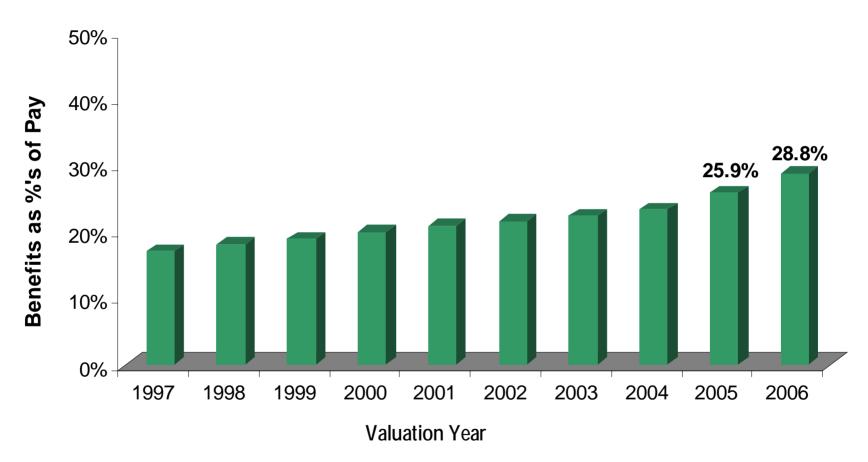
## Ratio of Active Members to Pension Benefit Recipients







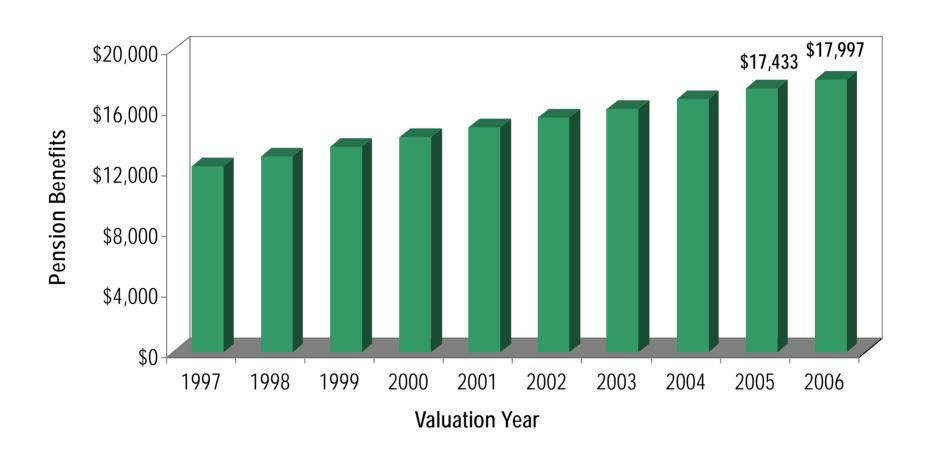
# Pension Benefits Expressed as %'s of Active Member Pay







## Average Annual Pensions

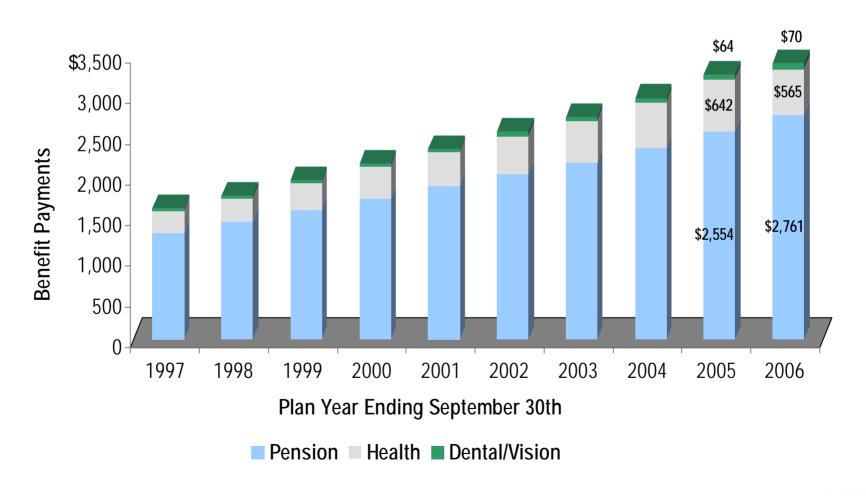






## Benefit Payments by Fiscal Year

(Amounts in Millions)

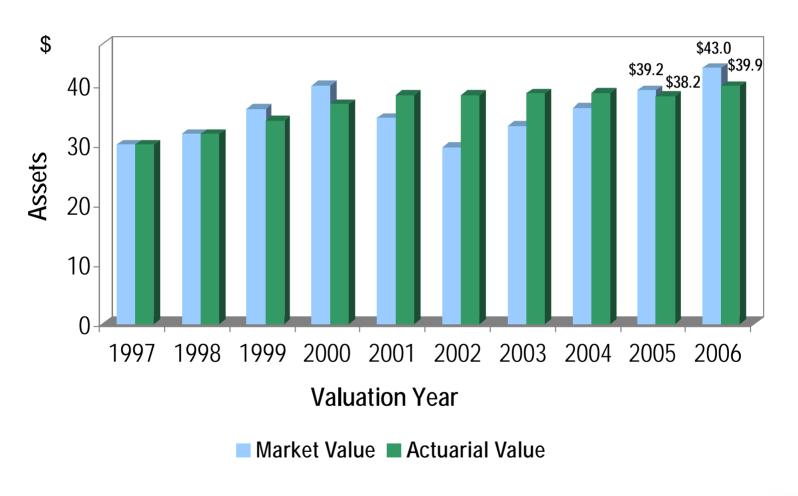






## Growth of Pension Assets

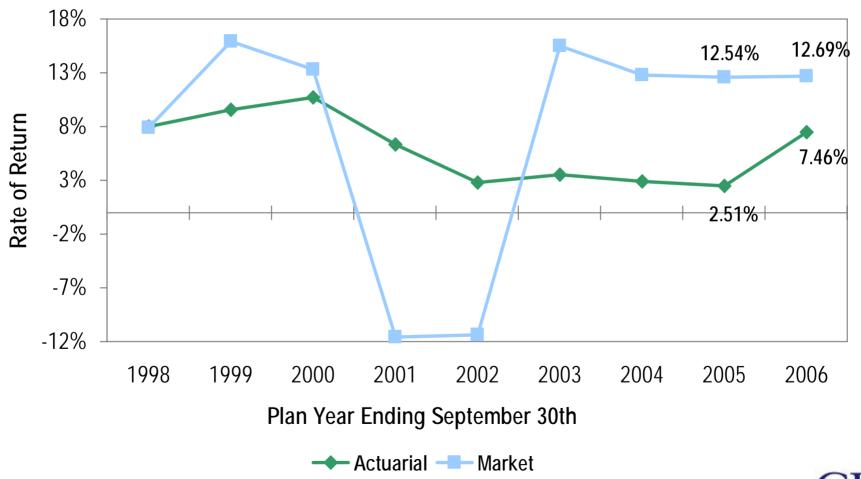
(Amounts in Billions)







### Actuarial & Market Net Rates of Return

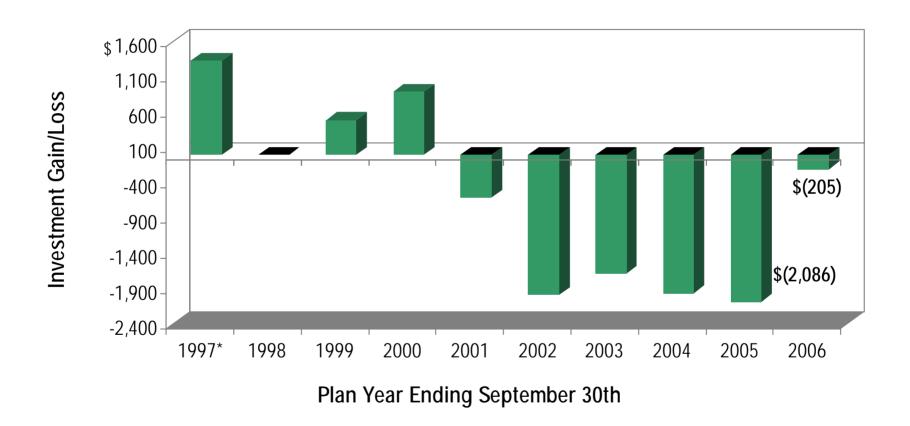






### Investment Gain/Loss

(Amounts in Millions)



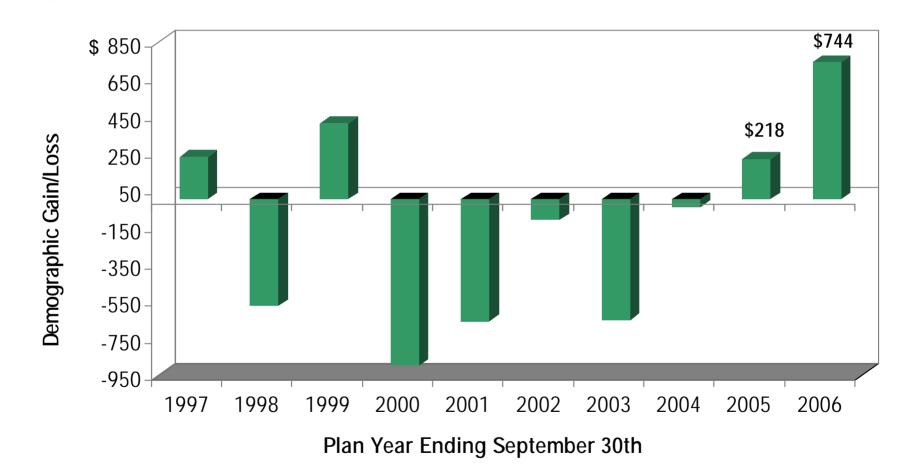


<sup>\*</sup> Plus an additional \$4,566 for 1997 due to write up to market



### Demographic Gain/Loss

(Amounts in Millions)







## Gain/(Loss) by Type of Activity (Amounts in Millions)

Plan Year

Ending 9/30	2006	2005	2004	2003	2002
New Entrants	\$ (98.7)	\$ (68.3)	\$ (46.4)	\$ (169.5)	\$ (97.5)
Retiree Deaths	(49.2)	(84.2)	(127.3)	(16.0)	6.2
Investments	(204.6)	(2,085.5)	(1,959.6)	(1,684.1)	(1,984.9)
Pay Increases	691.6	68.7	(162.4)	112.6	29.6
Withdrawal	(5.9)	26.0	43.8	24.8	(115.2)
Retirements	46.2	64.6	12.3	24.0	90.6
Other	160.0	211.1	239.1 *	(628.2) *	(24.7)
Total	539.4	(1,867.6)	(2,000.5)	(2,336.4)	(2,095.8)

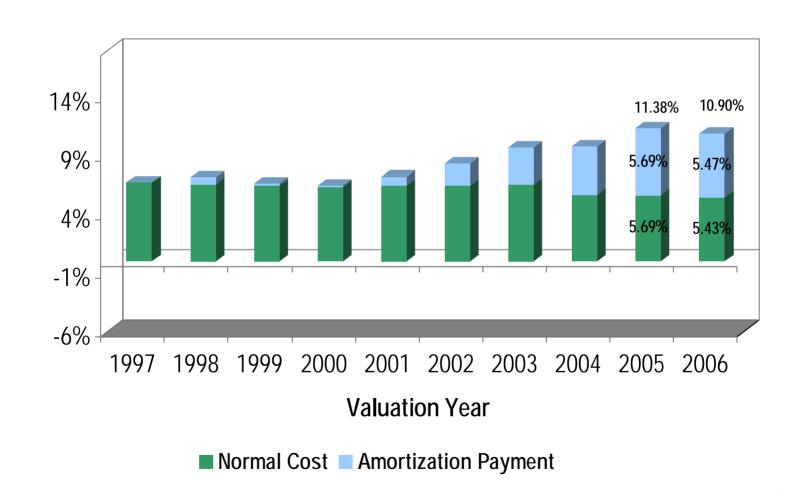


<sup>\*</sup> As a result of a change in the reporting of benefit service.



# Historical Employer Contribution %'s Valuation as of September 30

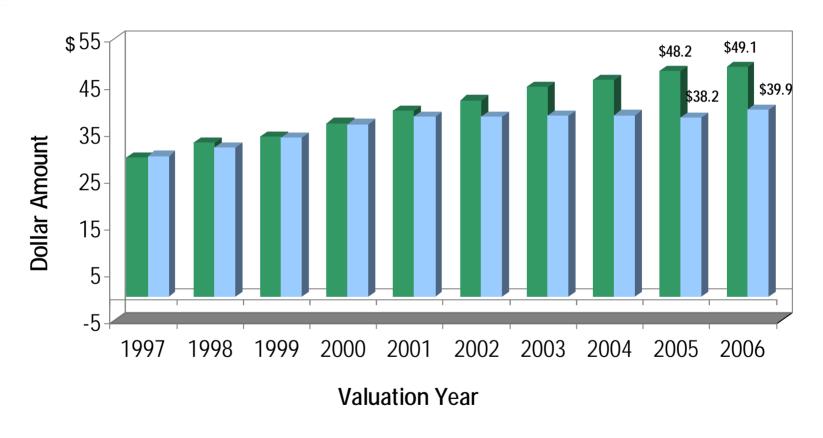








# Actuarial Accrued Liability Compared to Actuarial Value of Assets (in Billions)

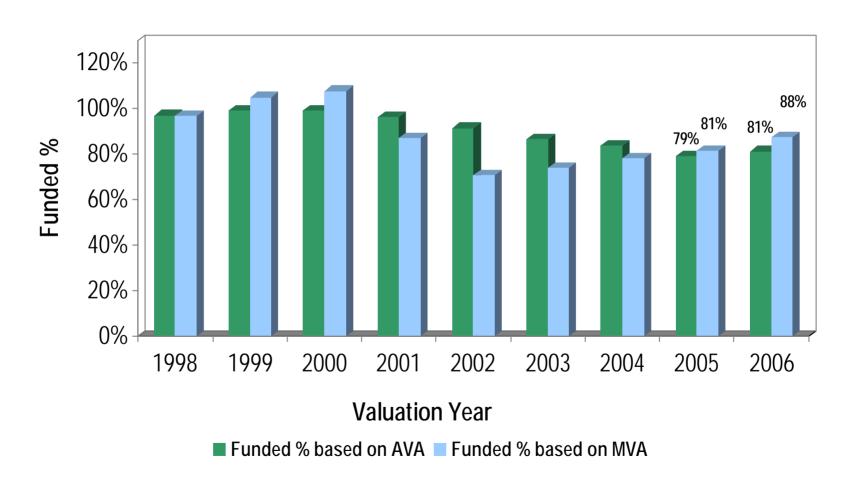


■ Actuarial Accrued Liability (AAL) ■ Actuarial Value of Assets (AVA)





## Retirement System Funded % Based on Actuarial Value and Market Value of Assets







## Unfunded as Percentage of Payroll

